Name:	
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Take-home Quiz

1. Suppose you want to know whether there is an association between gender and education. You use StatCrunch and conduct a Chi-Square test between the variables SEX and HIGHEST DEGREE. StatCrunch produces the output below. What is your conclusion (including your justification).

	0 - Less than HS	1 - High School	2 - Junior College	3 - Bachelor	4 - Graduate	Total
Female	163 (14.91%) 160.5	549 (50.23%) 542.2	93 (8.509%) 93.52	182 (16.65%) 191.9	106 (9.698%) 104.9	1093 (100.00%)
Male	134 (14.42%) 136.5	454 (48.87%) 460.8	80 (8.611%) 79.48	173 (18.62%) 163.1	88 (9.473%) 89.13	929 (100.00%)
Total	297 (14.69%)	1003 (49.6%)	173 (8.556%)	355 (17.56%)	194 (9.594%)	2022 (100.00%)

Chi-Square test:

Statistic	DF	Value	P-value	
Chi-square	4	1.4124166	0.842	

- 2. Suppose the correlation coefficient between two variables x and y turns out to be -0.89. What does this mean?
- 3. For which type of variables is a Chi-Square test appropriate, for which do you compute a correlation coefficient? Which one provides more information?
- 4. For the data below we computed Sxx = 8, Syy = 12.67, Sxy = 10, and x_bar = 4, y_bar = 8.33.

